

PARIS.

Academy of Sciences, November 16.—**M. P. Appell** in the chair.—**H. Deslandres**: Observation of the total eclipse of August 21, 1914, by the expedition from the Meudon Observatory. The expedition organised by the Observatory of Meudon made observations at Strömsund, in Sweden. Photographs were taken with two spectrographs, a brief description of which is given (see p. 373).—**A. Chauveau**: The question of the diminished resistance of enfeebled organisms to the destructive action of the tubercle bacillus. The author has previously published the view that healthy subjects, living in close contact with tuberculous patients, are as liable to contract tuberculosis as enfeebled subjects. They are all, strong and weak, equally liable to receive and cultivate the specific germs of the disease if these germs succeed in penetrating in the living state by the two usual modes of infection (respiratory or digestive). The author discusses from the public health point of view the opposite view more commonly held, and protests against erroneous interpretations of his views.—**André Blondel**: The most general enunciation of the laws of induction. Experiments are described showing that the enunciation of the laws of induction in some well-known text-books is too general.—**M. Courty**: Observation of the transit of Mercury made at the Observatory of Bordeaux, November 7, 1914.—**P. Gaubert**: Artificial macles of tin.—**Marcel Baudouin**: Discovery of a menhir remaining upright under a dune on the coasts of Vendée. The stone was found in modern Quaternary deposits and was indisputably of human workmanship.—**Maurice Lugeon**: The presence of crystalline plates in the Prealps and their significance.—**H. Colin**: The saccharogen in the beetroot.—**P. Harlot**: The marine flora of the island of Tatihou and of Saint-Vaast-la-Hougue.

CALCUTTA.

Asiatic Society of Bengal, November 4.—**J. J. Kieffer**: Chironomides du Lac de Tibériade. Six new species are described and one already known from Europe and North Africa (*Pelopia monilis*) recorded from the Lake of Tiberias.—**H. Sāstri**: Recent additions to our knowledge of the copper age antiquities of the Indian Empire. The note brings up to date the information about the copper or bronze antiquities of India by noticing some fresh material that has come to light since Mr. V. A. Smith wrote on the subject in the *Indian Antiquary*, and makes some corrections in the descriptions by Mr. Smith.

BOOKS RECEIVED.

Inaugural Address of the President, W. A. Evans, to the Members of the Leicester Literary and Philosophical Society, October 5: Wheat and its Relation to the Present Crisis. Pp. 20. (Leicester: W. Thornley and Son.)

Atti della Fondazione Scientifica Cagnola dalla sua Istituzione in Poi. Vol. xxiii. Anni 1908-12. (Milano: Tipo. Lit. Rebeschini de Turati E. C.)

The Museum of the Brooklyn Institute of Arts and Sciences. Science Bulletin. Vol. ii. No. 4: A Report on the South Georgia Expedition. Edited by R. C. Murphy. Pp. 43-101. (Brooklyn: The Museum of the Institute.)

Memorie del R. Istituto Lombardo di Scienze e Lettere. Vol. xxiii.-xiv. della Serie III. Fasc. I. Saggio di un Indice Lessicale Etrusco. By E. Lattes. Pp. 66. (Milano: U. Hoepli.)

The Trisection of Lines and Angles: Geometrical Researches in the Twentieth Century. By C.

Guezouni. Pp. v+58. (London: International Scientific Association.) 1s. net.

The Royal Technical College, Glasgow. Annual Report on the 118th Session. Pp. 69. (Glasgow: Royal Technical College.)

Elementary Practical Chemistry. By J. E. Myers and J. B. Firth. Pp. viii+194. (London: C. Griffin and Co., Ltd.) 4s. net.

A First Book of Geology. By Dr. A. Wilmore. Pp. vi+141. (London: Macmillan and Co., Ltd.) 1s. 6d.

Insects Injurious to the Household and Annoying to Man. By Prof. G. W. Herrick. Pp. xvii+470. (London: Macmillan and Co., Ltd.) 7s. 6d. net.

Life of Sir John Lubbock, Lord Avebury. By H. G. Hutchinson. Two vols. Vol. i. Pp. xiv+338. Vol. ii. Pp. x+334. (London: Macmillan and Co., Ltd.) 30s. net.

Falske Analogier med henblik Lighed, Slægtskab, Arv, Tradition og Udvikling. By W. Johannsen. Pp. 114. (København: G. E. C. Gads Forlag.)

The Essex Field Club Year-book and Calendar for 1911-12. Edited by W. Cole. Pp. 32. (Stratford: Essex Museum of Natural History.) 1s. net.

Bartholomew's Orographical Map of Central Europe, showing Political Frontiers. (Edinburgh: J. Bartholomew and Co.) 2s. 6d. net.

Bartholomew's War Map of Europe and the Mediterranean. (Edinburgh: J. Bartholomew and Co.) 1s. net.

City and Guilds of London Institute. Department of Technology, Exhibition Road, London, S.W. Report on the Work of the Department for the Session 1913-14. Pp. 466. (London: J. Murray.)

Annalen der k.k. Universitäts-Sternwarte in Wien. Band xxiii., Nr. 1. Photographische Aufnahmen des Halleyschen Kometen und der Kometen des Jahres 1911. By Dr. J. Rheden. Pp. 28+Tafel 9. Band xxv., Nr. 1. Untersuchungen über das Rothschild-Coudé und den Coudespektrographen der k.k. Universitäts-Sternwarte in Wien. By A. Hnatek. Pp. 67. (Wien.)

On the Trail of the Opium Poppy. By Sir A. Hosie. 2 vols. Vol. i., pp. viii+300. Vol. ii., pp. 308. (London: G. Philip and Son, Ltd.) 25s. net.

University Correspondence College Calendar, 1914-1915. Pp. 217. (Cambridge: Burlington House.)

Meteorological Office. Geophysical Memoirs. No. 9: On the Relation between the Velocity of the Gradient Wind and that of the Observed Wind. By J. Fairgrieve. Pp. 189-207. No. 10. The Effect of the Labrador Current upon the Surface Temperature of the North Atlantic, and of the latter upon Air Temperature and Pressure over the British Isles. By Commander M. W. C. Hepworth. Part 2. Pp. 211-220. (London: Meteorological Office.) 1s. and 8d. respectively.

Ice Observation, Meteorology, and Oceanography in the North Atlantic Ocean. Report on the Work carried out by the s.s. *Scotia*, 1913. Pp. 141. (London: H.M.S.O.; Wyman and Sons, Ltd.) 4s. 6d.

Maps, Charts, and Diagrams to Illustrate the Above. Plates 35. (London: H.M.S.O.; Wyman and Sons, Ltd.) 2s. 6d.

The Modern Factory: Safety, Sanitation, and Welfare. By Dr. G. M. Price. Pp. xx+574. (New York: J. Wiley and Sons, Inc.; London: Chapman and Hall, Ltd.) 17s. net.

Constructive Text-Book of Practical Mathematics. By H. W. Marsh. Vol. iii. Technical Geometry. Pp. xiv+244. (New York: J. Wiley and Sons, Inc.; London: Chapman and Hall, Ltd.) 5s. 6d. net.

Mathematical Monographs. No. 14. Algebraic Invariants. By Prof. L. E. Dickson. Pp. x+100.

(New York: J. Wiley and Sons, Inc.; London: Chapman and Hall, Ltd.) 5s. 6d. net.

Outlines of Organic Chemistry. By Prof. F. J. Moore. Second edition. Pp. xi+325. (New York: J. Wiley and Sons, Inc.; London: Chapman and Hall, Ltd.) 6s. 6d. net.

Pattern-Making. By F. W. Turner and D. G. Town. Pp. v+114. (New York: J. Wiley and Sons, Inc.; London: Chapman and Hall, Ltd.) 4s. 6d. net.

Above the Battlefield. By R. Rolland. Pp. 17. (Cambridge: Bowes and Bowes.) 6d. net.

Germany's War-Inspired, Nietzsche and Treitschke. By Canon E. McClure. Pp. 44. (London: S.P.C.K.) 4d. net.

The Germ-Cell Cycle in Animals. By Dr. A. W. Hegner. Pp. x+346. (London: Macmillan and Co., Ltd.) 7s. 6d. net.

Geometry of Four Dimensions. By Prof. H. P. Manning. Pp. ix+348. (London: Macmillan and Co., Ltd.) 8s. 6d. net.

A Foundational Study in the Pedagogy of Arithmetic. By Dr. H. B. Howell. Pp. xi+328. (London: Macmillan and Co., Ltd.) 5s. 6d. net.

Department of Commerce. Technologic Papers of the Bureau of Standards. Nos. 30 to 35. (Washington: Government Printing Office.)

Department of Commerce. Scientific Papers of the Bureau of Standards. Nos. 217, 219 to 222. (Washington: Government Printing Office.)

Department of Commerce. Bulletin of the Bureau of Standards. Vol. x. Nos. 2 and 3. (Washington: Government Printing Office.)

Department of Commerce. Circular of the Bureau of Standards. Nos. 16 and 44. (Washington: Government Printing Office.)

Report of the Commissioner of Education for the Year ended June 30, 1913. Vol. i. Pp. liv+931. Vol. ii. Pp. vi+700. (Washington: Government Printing Office.)

Department of Commerce. U.S. Coast and Geodetic Survey. Results of Observations made at the U.S. Coast and Geodetic Survey Magnetic Observatory at Vieques, Porto Rico, 1911 and 1912. Pp. 102. (Washington: Government Printing Office.)

Department of Commerce. U.S. Coast and Geodetic Survey. Terrestrial Magnetism. Results of Magnetic Observations made by the U.S. Coast and Geodetic Survey in 1913. Pp. 52. (Washington: Government Printing Office.)

State of Connecticut. Public Document. No. 24. Thirty-seventh Annual Report of the Connecticut Agricultural Experiment Station. Being the Annual Report for the Year ending October 31, 1913. Pp. xviii+441. (Hartford, Conn.)

Proceedings of the Academy of Natural Sciences of Philadelphia. Vol. lxvi. Part 2. Pp. 227-555. (Philadelphia.)

Connecticut Geological and Natural History Survey. Vol. iv. Bulletins 16 to 21, 1910-13. (Hartford, Conn.: State Geological and Natural History Survey.)

DIARY OF SOCIETIES.

THURSDAY, DECEMBER 3.

ROYAL SOCIETY, at 4.30.—The Thermophone: A New Form of Telephone: M. de Lange.—Hermann's Phenomenon: G. S. Walpole.

CHILD STUDY SOCIETY, at 7.30.—Self Expression through Language with Older Children: Margaret Corner.

LINNEAN SOCIETY, at 8.—An Ecological Journey in South America, Illustrated by Lantern Slides: R. C. McLean.—*Isolites japonica*, A. Br.: C. West and H. Takeda.

FRIDAY, DECEMBER 4.

GEOLOGISTS' ASSOCIATION, at 8.—The Fossil Flora of the Pettycur Limestone: Dr. W. T. Gordon.

INSTITUTION OF MECHANICAL ENGINEERS, at 8.—Thomas Hawksley Lecture: Pumping and other Machinery for Waterworks and Drainage: (by the late Mr. W. B. Bryan) read by B. W. Bryan.

NO. 2353, VOL. 94]

MONDAY, DECEMBER 7.

SOCIETY OF ENGINEERS, at 7.30.—Mechanical Appliances for the Painless Killing of Animals: S. M. Dodginton.

SOCIETY OF CHEMICAL INDUSTRY, at 8.

ROYAL GEOGRAPHICAL SOCIETY, at 8.30.—Types of Political Frontiers in Europe: Prof. L. W. Lyde.

ROYAL SOCIETY OF ARTS, at 8.—The History and Practice of the Art of Printing: R. A. Peddie.

WEDNESDAY, DECEMBER 9.

ROYAL SOCIETY OF ARTS, at 8.—Domestic Metal Work of the 18th Century: W. A. Young.

THURSDAY, DECEMBER 10.

ROYAL SOCIETY, at 4.30.—*Probable Papers*: The Electrical Conductivity of Echinoderm Eggs, and its Bearing on the Problems of Fertilisation and Artificial Parthenogenesis: J. Gray.—The Endemic Flora of Ceylon with Reference to Geographical Distribution and Evolution in General: Dr. J. C. Willis.

MATHEMATICAL SOCIETY, at 5.30.—Simultaneous Equations, Linear or Functional: E. H. Neville.—Integrals and Derivatives, with respect to a Function: W. H. Young.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Automatic Protective Switchgear for Alternating Current Systems: E. B. Wedmore.

FRIDAY, DECEMBER 11.

ROYAL ASTRONOMICAL SOCIETY, at 5.
MALACOLOGICAL SOCIETY, at 8.—The Geographical Distribution of *Purpura lapillus* (L.): Rev. A. H. Cooke.—The Non-Marine Mollusca of a Post-Pliocene Deposit at Apethorpe, Northants: A. S. Kennard and B. B. Woodward.—Monstrosities of *Cypraea*: L. St. G. Byne.—Monstrosities in *Littorina rudis*: J. E. Cooper.

CONTENTS.

	PAGE
Dante's Astronomy. By J. L. E. D.	359
Foundations of Systematic Biology. By F. A. B.	360
Science, Metaphysics, and Education. By A. E.	360
Crawley	360
Our Bookshelf	362
Letters to the Editor:—	
The Age of a Herring.—Prof. D'Arcy W. Thompson, C.B.	363
The Cross $\times$ as a Symbol for Multiplication.—Prof. Florian Cajori	363
Antarctic Adventure. (<i>Illustrated</i> .) By R. N. R. B.	364
Secret Remedies	365
Organisation of Science. By Sir Ronald Ross, K.C.B., F.R.S.	366
Anniversary Meeting of the Royal Society	367
Notes	369
Our Astronomical Column:—	
Comet News	373
A Central Bureau for Transmission of Astronomical News	373
The Recent Eclipse Expedition from Meudon	373
Spectra of Novæ at a Very Late Stage	373
The Antwerp "Gazette Astronomique"	373
The Hardening of Metals. By Prof. H. C. H. Carpenter	374
Air, Climate, and Tuberculosis	374
The British Association in Tasmania. By A. D.	376
Australia and the British Association. By Sir Edward Schäfer, F.R.S.	376
University and Educational Intelligence	382
Societies and Academies	382
Books Received	385
Diary of Societies	386

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